22 Hey 1962

	MEMORANDUM FOR: Chief, Technical Plans & Development Staff	
	THROUGH: Acting Chief, Technical Development Branch	
5年40	SUBJECT: Design Modifications for Model 45 Multimotion Twin 70mm Light Tables	
25X1	l. On a visit to plant, on 16 May 1962, the undersigned participated in a design conference to finalize the specifications for the subject light table. Twelve of these tables were approved for procurement at a cost of at the Technical Development Committee meeting of 26 April 1962.	25X1
25X1	2. In discussions withdesign engineers, it became experent that a more versatile instrument could be fabricated at little additional cost without sacrificing any of the desirable features	
25X1	incorporated in the original proposal. In addition, the APEL file reel brackets and the segmented nylon rollers, now being	
25X1	procured for existing light tables, are superior to the design pro-	
25X1	3. It, therefore, appears to be in the best interest of the government to incorporate the design changes tabulated in paragraph in the contract before it is tandered to the vendor. This will, undoubtedly, result in a reduction in price for each instrument since the superior APEL brackets and rollers can be furnished and installed by the government at considerably less cost than could procure or design like-quality hardware.	25X1
:	4. Statement of work to be performed by vendor.	,
25X1 25X1	a. Design and fabricate a light table suitable for mounting the following government furnished equipment: A standard	
	b. Provide a slide between the table and the stand to allow the microscope to be quickly positioned over the viewing area of the light box.	25X1
	c. Provide a transverse feed scraw and slide to move the light box in relation to the microscope a minimum of 12"	
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each side of the table centerline.

- d. Provide a rotational movement of the whole light table on its base and tilting mechanism a minimum of 90° in each direction from the nominal position.
- e. Provide a tilting mechanism with integral braking safety device to allow tilting the light table and microscope through a minimum range of 0° to 45° of inclination toward operator.
- f. Provide a light table with at least 92 on a side of lighted surface but no more than ll2 on a side. The viewing surface of the table is to be glass with an opalescent plastic diffuser immediately beseath the glass surface.
- g. The design goal for table lighting should be sufficient to view transparencies with 2.0 density comfortably through a standard Zoom microscope pod at 60% magnification. Switches or voltage regulation devices are to be provided for at least 4 levels of illumination over the entire viewing surface and at least 2 levels in each of the four quadrants of the viewing surface.
- h. Provide mounting arrangements and necessary hardware to mount government furnished accessory equipment, listed it paragraph 4(a) on the light table at the customer's facility.
- i. Height of the table and over-all dimensions of the base are to be held to a minimum commensurate with good engineering design and proper balance in all possible positions expected in an operational environment.
- j. Magineering and fabrication costs are to be prorated over 12 units.

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rollers are to be shipped to vendor about 10 June 1962, for f	ittine
on the prototype instrument. Ten sets of APEL brackets at	
each should be added to the existing MPIC contract with	
for installation on the subject tables. The	Arm
Detectment has indicated no additional APET	i.
brackets are required for the two tables consigned to Army.	

HPIC/TPeDS/TDB:WGM:df		

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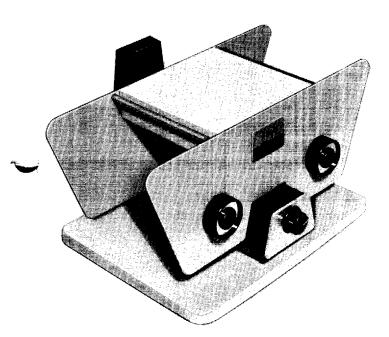
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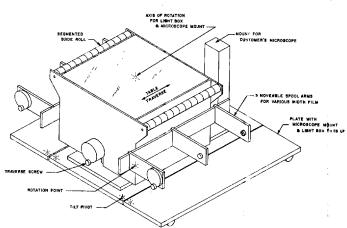
MODEL 45 DUAL-PATH STEREO VIEWER

Model 45 Dual-Path Stereo Viewer is a compact, desk top viewing instrument for examination of aerial, missile instrumentation and research photography. It is available in two versions. The large version (#1) will accommodate two paths of 70-mm or 5-inch film, or a single path of 9-inch film. The small version (#2) will accommodate twin paths of 70-mm or a single path of 5-inch film. Both versions include: cross-slide adjustment for stereo microscopic viewing; rotation of viewing plane through ±90°; tilting of viewing plane 20° forward regardless of rotation of plane; and built-in film tension.



▼ VERSION #1

VERSION #2 T7



SPECIFICATIONS

DIMENSIONS	Version #1	· 16 x 14 x 17	inches
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Version #2 -- 12 x 10 x 17 inches

WEIGHT Version #1 — 35 pounds

Version #2 — 25 pounds

VIEWING AREA Version #1 — 10 x 10 inches

Version #2 - 71/4 x 71/4 inches

FILM CAPACITY Version #1 — up to 1000 feet

Version #2 — 100 feet

LIGHT SOURCE Multiple fluorescent tubes, variable intensity

25X1